

**ABSTRACT**

An input stage circuit for an LVDS circuit. The input stage has a folded cascode that receives input signals. The folded cascode has a first input circuit and a second input circuit. The first input circuit receives a first input signal from a connected circuit and the second input circuit receives a second signal from the connected circuit. A first current mirror receives signals from the first input circuit of said folded cascode. A second current mirror receives signals from the second input circuit. The first current mirror and the second current mirror are connected to a common output to merge signals from the first and second input circuits. A diode adjusts a voltage level of the signals to an output voltage.